

Addressing

The Control Board allows you to assign the DMX starting address, which is defined as the first channel from which the LED MFX-3 Action Cube will respond to the controller.

If you set, for example, the address to channel 17, the device will use the channel 17 to 32 for control.

Please, be sure that you don't have any overlapping channels in order to control each LED MFX-3 Action Cube correctly and independently from any other fixture on the DMX-chain.

If several LED MFX-3 Action Cubes are addressed similarly, they will work synchronically.

Press the Up/Down-buttons for setting the desired starting address. Now you can start operating the LED MFX-3 Action Cube via your lighting controller.

Note:

After switching on, the device will automatically detect whether DMX 512 data is received or not. If the data is received at the DMX-input, the display will show "**A.001**", the dot will flash, with the actually set address. If there is no data received at the DMX-input, the display will show "**A001**" with the actually set address.

This situation can occur if:

- the XLR plug (cable with DMX signal from controller) is not connected with the input of the device.
- the controller is switched off or defective, if the cable or connector is defective or the signal wires are swap in the input connector.

DMX-protocol

| Channel | Decimal | Hexad. | Percentage | S/F | Feature | | | | |
|---------|---------|--------|------------|-----|---------|---|------|---|---|
| 1 | 1 | | | | | Horizontal movement (PAN) | | | |
| | | 0 | 255 | 00 | FF | 0% | 100% | F | Push slider up in order to move the head horizontally (PAN). Gradual head adjustment from one end of the slider to the other (0-255, 128-center). The head can be stopped at any position you wish. |
| | 2 | | | | | PAN-movement with 16-bit resolution | | | |
| | | 0 | 255 | 00 | FF | 0% | 100% | F | Fine indexing |
| 2 | 3 | | | | | Vertical movement TILT | | | |
| | | 0 | 255 | 00 | FF | 0% | 100% | F | Push slider up in order to move the head vertically (TILT). Gradual head adjustment from one end of the slider to the other (0-255, 128-center). The head can be stopped at any position you wish. |
| | 4 | | | | | TILT-movement with 16-bit resolution | | | |
| | | 0 | 255 | 00 | FF | 0% | 100% | F | Fine indexing |
| 3 | 5 | | | | | Function TILT movement | | | |
| | | 0 | 30 | 00 | 1E | 0% | 12% | S | No function |
| | | 31 | 140 | 1F | 8C | 12% | 55% | F | Unlimited TILT rotation forwards with decreasing speed |
| | | 141 | 145 | 8D | 91 | 55% | 57% | S | Stop |
| | | 146 | 255 | 92 | FF | 57% | 100% | F | Unlimited TILT rotation backwards with increasing speed |
| 4 | 6 | | | | | PAN/TILT speed | | | |
| | | 0 | 225 | 00 | E1 | 0% | 88% | F | Decreasing speed |
| | | 226 | 255 | E2 | FF | 89% | 100% | S | Maximum speed |
| 5 | 7 | | | | | Red | | | |
| | | 0 | 255 | 00 | FF | 0% | 100% | F | Gradual adjustment of the intensity from 0 to 100 % |
| 6 | 8 | | | | | Green | | | |
| | | 0 | 255 | 00 | FF | 0% | 100% | F | Gradual adjustment of the intensity from 0 to 100 % |

English

| | | | | | | | | | |
|-----|-----|-----|-----|-----|------|-----|--|---|--|
| 7 | 9 | | | | | | | Blue | |
| | | 0 | 255 | 00 | FF | 0% | 100% | F | Gradual adjustment of the intensity from 0 to 100 % |
| 8 | 10 | | | | | | | White | |
| | | 0 | 255 | 00 | FF | 0% | 100% | F | Gradual adjustment of the intensity from 0 to 100 % |
| 9 | 11 | | | | | | | Strobe | |
| | | 0 | 15 | 00 | 0F | 0% | 6% | S | No function |
| | | 16 | 95 | 10 | 5F | 6% | 37% | F | Strobe-effect with increasing speed |
| | | 96 | 175 | 60 | AF | 38% | 69% | F | Pulse-effect 1 Hz with decreasing pulse width |
| | | 176 | 255 | B0 | FF | 69% | 100% | F | Random strobe-effect with increasing speed |
| 10 | 12 | | | | | | | Dimmer intensity | |
| | | 0 | 255 | 00 | FF | 0% | 100% | F | Gradual adjustment of the dimmer intensity from 0 to 100 % |
| 11 | 13 | | | | | | | LED strips - color presets and color changes | |
| | | 0 | 36 | 00 | 24 | 0% | 14% | S | No function |
| | | 37 | 56 | 25 | 38 | 15% | 22% | S | Red |
| | | 57 | 77 | 39 | 4D | 22% | 30% | S | Green |
| | | 78 | 98 | 4E | 62 | 31% | 38% | S | Blue |
| | | 99 | 119 | 63 | 77 | 39% | 47% | S | Red + green |
| | | 120 | 140 | 78 | 8C | 47% | 55% | S | Red + blue |
| | | 141 | 161 | 8D | A1 | 55% | 63% | S | Green + blue |
| | | 162 | 176 | A2 | B0 | 64% | 69% | S | Red + green + blue |
| | | 177 | 186 | B1 | BA | 69% | 73% | S | RGB color change |
| | | 187 | 196 | BB | C4 | 73% | 77% | S | Color chase 1, RED |
| | | 197 | 206 | C5 | CE | 77% | 81% | S | Color chase 2, GREEN |
| | | 207 | 216 | CF | D8 | 81% | 85% | S | Color chase 3 ,BLUE |
| | | 217 | 226 | D9 | E2 | 85% | 89% | S | Color chase 4, RED + GREEN |
| | | 227 | 236 | E3 | EC | 89% | 93% | S | Color chase 5, RED + BLUE |
| 237 | 246 | ED | F6 | 93% | 96% | S | Color chase 6, GREEN + BLUE | | |
| 247 | 255 | F7 | FF | 97% | 100% | S | Color chase 7, RED + GREEN + BLUE | | |
| 12 | 14 | | | | | | | LED strips speed | |
| | | 0 | 255 | 00 | FF | 0% | 100% | F | Decreasing speed |
| 13 | 15 | | | | | | | LEDs - color presets and color change | |
| | | 0 | 45 | 00 | 2D | 0% | 18% | S | No function |
| | | 46 | 65 | 2E | 41 | 18% | 25% | S | Red |
| | | 66 | 85 | 42 | 55 | 26% | 33% | S | Green |
| | | 86 | 105 | 56 | 69 | 34% | 41% | S | Blue |
| | | 106 | 125 | 6A | 7D | 42% | 49% | S | White |
| | | 126 | 145 | 7E | 91 | 49% | 57% | S | Red + green |
| | | 146 | 165 | 92 | A5 | 57% | 65% | S | Red + blue |
| | | 166 | 185 | A6 | B9 | 65% | 73% | S | Green + blue |
| | | 186 | 205 | BA | CD | 73% | 80% | S | Red + green + blue + white |
| 206 | 255 | CE | FF | 81% | 100% | F | RGB color change with decreasing speed | | |
| 14 | 16 | | | | | | | Internal programs, reset, sound control | |
| | | 0 | 49 | 00 | 31 | 0% | 19% | S | No function |
| | | 50 | 68 | 32 | 44 | 20% | 27% | S | Internal program 1 |
| | | 69 | 89 | 45 | 59 | 27% | 35% | S | Internal program 2 |
| | | 90 | 109 | 5A | 6D | 35% | 43% | S | Internal program 3 |
| | | 110 | 119 | 6E | 77 | 43% | 47% | S | Sound control |
| | | 120 | 249 | 78 | F9 | 47% | 98% | S | No function |
| 250 | 255 | FA | FF | 98% | 100% | S | Reset | | |